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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn) A computerized method for a system to interpret a numerical data pertaining to a sample assay comprising at least one biological or chemical sample, said numerical data including a set of data pertaining to each respective sample, each of said set of data including a plurality of data values, each representing a condition of said respective sample at a point in time, said method comprising the steps of:

for each set of data, performing the steps of:

representing each of said plurality of data values as points on a graph having a vertical axis representing a magnitude of said plurality of data values and a horizontal axis representing a period of time during which readings of said sample were taken to obtain the plurality of data values;

correcting said plurality of data values based on said magnitude of at least one of said plurality of data values;

reducing said plurality of corrected data values for each set of data values;

determining whether said reduced plurality of data values corresponds to a predetermined reference value; and

controlling said system to indicate whether said sample has a predetermined characteristic based on a result of said determining step.

2. (Withdrawn) The method as claimed in claim 1, wherein said correcting step includes adjusting said magnitude of at least one of said plurality of data values in relation to said magnitude of adjacent ones of said plurality of data values on said graph.

3. (Withdrawn) The method as claimed in claim 1, further comprising the steps of: comparing said plurality of corrected data values to a predetermined threshold value; and further correcting said plurality of corrected data values based on whether said plurality of data values exceeds said predetermined threshold value.

4. (Withdrawn) The method as claimed in claim 3, wherein when said comparing step determines that said plurality of corrected data values exceeds said predetermined threshold value, said controlling step controls said system to indicate that said sample was not present.

5. (Withdrawn) The method as claimed in claim 1, wherein said reducing step includes combining each of said plurality of corrected data values for each set of data at respective points in time on said graph and calculating a representative value of the plurality of combined corrected data values for use in said determining step.

6. (Withdrawn) The method as claimed in claim 1, wherein said correcting step includes calculating said correction values based on a plurality of said data values at a beginning of a sequence of said plurality of data values.

7. (Withdrawn) The method as claimed in claim 1, wherein when said determining step determines that said reduced plurality of data values corresponds to said predetermined characteristic, said controlling step controls said system to indicate that said sample has said predetermined characteristic.

8. (Withdrawn) The method as claimed in claim 1, wherein when said determining step determines that said reduced plurality of data values does not corresponds to said predetermined characteristic, said controlling step controls said system to indicate that said sample is absent said predetermined characteristic.

9. (Currently Amended) A tangible medium containing instructions that when executed by one or more processors performs a method for analyzing computerized method for a system to analyze a numerical data pertaining to a sample assay, the sample assay comprising at least one biological or chemical sample, said the numerical data comprising one set including a set of data pertaining to each respective sample, each of said set of data pertaining to each respective sample comprising including a plurality of data values, and each set of data representing a condition of each said respective sample at a point in time, the said method comprising the steps of:

for each set of data, performing the steps of:

assigning a respective numerical values value to each of the said plurality of data values;

initially correcting the respective numerical said plurality of numerical values pertaining to said set of data;

first initially comparing the initially corrected respective said corrected plurality of numerical values to a threshold value;

second subsequently correcting the initially said plurality of corrected respective numerical values based on whether the initially corrected respective numerical values said plurality of corrected exceeds said exceed the threshold value;

second subsequently comparing the subsequently said plurality of second corrected respective numerical values to a reference value corresponding to a predetermined assay; and indicating controlling said system to indicate whether said sample assay has a predetermined characteristic based on the result of the subsequent comparison said reference value comparison.

10. (Currently Amended) The method as claimed in claim 9, wherein the assigning respective numerical values to each of the plurality of data values further comprises said assigning step includes the step of arranging said the plurality of data values in a time-ordered sequence representative of the said respective points in time.

11. (Currently Amended) The method as claimed in claim 10, wherein said the initially correcting step further comprises includes calculating a correction value based on a plurality of said one or more of the respective numerical values at a beginning of said the time-ordered sequence.

12. (Currently Amended) The method as claimed in claim 11, wherein said the initially correcting step further comprises includes adjusting each of the respective numerical values of the plurality of data values in relation to adjacent in time respective numerical values in the time-ordered sequence an adjacent one of said numerical values.

13. (Currently Amended) The method as claimed in claim 9, wherein the initially said first comparing step includes further comprises calculating an average value of the initially corrected said corrected plurality of numerical values and comparing said average corrected numerical average value to said the threshold value.

14. (Currently Amended) The method as claimed in claim 9, wherein said second the subsequently correcting step includes further comprises correcting each of said the initially corrected

numerical values in relation to adjacent in sequence initially corrected respective numerical values in a time-ordered sequence representative of the respective points in time as adjacent one of said numerical values.

15. (Currently Amended) The method as claimed in claim 14, wherein said second the subsequently correcting step further comprises includes combining respective ones of said plurality of corrected numerical values for each set of data representative of initially corrected respective numerical values from each respective point in time and summarizing the combined initially corrected respective numerical values into said plurality of combined numerical data values to a numerical value representative of the combined initially corrected respective numerical values said plurality of combined numerical values.

16. (Currently Amended) The method as claimed in claim 15, wherein said second the subsequently comparing step further comprises includes comparing the combined initially corrected respective numerical values said numerical value to said the reference value.

17. (Currently Amended) The method as claimed in claim 9 claim 10, further comprising the step of assigning to each of said data values a respective time value values to the plurality of data values representative of said the respective point in time corresponding to said data value.

18. (Currently Amended) The method as claimed in claim 9, wherein said controlling step controls said system to report further comprising reporting whether said the initially corrected plurality of adjusted numerical values exceeds said exceed the threshold value.

19. (Withdrawn) A computer readable medium of instructions for controlling a system to analyze a numerical data pertaining to a sample assay comprising at least one biological or chemical sample, said numerical data including a set of data pertaining to each respective sample,

each of said set of data including a plurality of data values, each representing a condition of said respective sample at a point in time, said medium of instructions comprising:

a first set of instructions, adapted to control said system to represent each of said plurality of data values as points on a graph having a vertical axis representing a magnitude of said plurality of data values and a horizontal axis representing a period of time during which readings of said sample were taken to obtain the plurality of data values;

a second set of instructions, adapted to control said system to correct said plurality of data values based on said magnitude of at least one of said plurality of data values;

a third set of instructions, adapted to control said system to reduce said plurality of corrected data values for each set of data values;

a fourth set of instructions, adapted to control said system to determine whether said reduced plurality of data values corresponds to a predetermined reference value; and

a fifth set of instructions, adapted to control said system to controlling said system to indicate whether said sample has a predetermined characteristic based on a result of the determining step.

20. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said second set of instructions is further adapted to control said system to adjust a magnitude of at least one of the plurality of data values in relation to a magnitude of adjacent ones of said plurality of data values on said graph.

21. (Withdrawn) A computer-readable medium as claimed in claim 19, further comprising a sixth set of instructions adapted to control said system to compare said plurality of

corrected data values to a predetermined threshold value and to further correct said plurality of corrected data values based on whether said plurality of corrected data values exceeds said threshold value.

22. (Withdrawn) A computer-readable medium as claimed in claim 21, wherein when said fourth set of instructions determines that said plurality of data values exceeds said predetermined threshold value, said fifth set of instructions controls said system to indicate that said sample was not present.

23. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said third set of instructions is further adapted to control said system to combine each of said plurality of corrected data values for each set of data at respective points in time on said graph and to calculate a representative value of the plurality of combined corrected data values for use in said determining step.

24. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said fifth set of instructions is further adapted to control said system to report predetermined characteristic based on said determining step.

25. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said fifth set of instructions is further adapted to control said system to indicate that said sample has said predetermined characteristic when said determining step determines that said reduced plurality of data corresponds to said predetermined characteristic.

26. (Withdrawn) A computer-readable medium as claimed in claim 19, wherein said fifth set of instructions is further adapted to control said system to indicate that said sample is absent said

predetermined characteristic when said determining step determines that said reduced plurality of data does not corresponds to said predetermined characteristic.

27. (Withdrawn) A computerized method for a system to interpret a numerical data pertaining to a sample assay comprising at least one biological or chemical sample, said numerical data including a set of data pertaining to each respective sample, each of said set of data including a plurality of data values, each representing a condition of said respective sample at a point in time, said method comprising the steps of:

for each set of data, performing the steps of:

a means for representing each of said plurality of data values as points on a graph having a vertical axis representing the magnitude of said plurality of data values and a horizontal axis representing a period of time during which readings of said sample were taken to obtain the plurality of data values;

a means for correcting said plurality of data values based on said magnitude of at least one of said plurality of data values;

a means for reducing said plurality of corrected data values for each set of data values;

a means for determining whether said reduced plurality of data values corresponds to a predetermined reference value; and

a means for controlling said system to indicate whether said sample has a predetermined characteristic based on a result of the determining step.

28. (Withdrawn) The method as claimed in claim 27, wherein said correcting means includes a means for adjusting a magnitude of at least one of the plurality of data values in relation to a magnitude of adjacent ones of said plurality of data values on said graph.

29. (Withdrawn) The method as claimed in claim 27, further comprising the steps of:
a means for comparing said plurality of data values to a predetermined threshold value; and
a means for further correcting said plurality of corrected data values based on whether said plurality of data values exceeds said predetermined threshold value.

30. (Withdrawn) The method as claimed in claim 27, wherein when said comparing means determines that said plurality of corrected data values exceeds said predetermined threshold value, said controlling means control said system to indicate that a sample was not present.

31. (Withdrawn) The method as claimed in claim 27, wherein said reducing means includes a means for combining each of said plurality of corrected data values for each set of data at respective points in time on said graph and a means for calculating a representative value of the plurality of combined corrected data values for use by said determining means.

32. (Withdrawn) The method as claimed in claim 27, wherein said controlling means controls said system to report said predetermined characteristic based on said determining means.

33. (Withdrawn) The method as claimed in claim 27, wherein when said determining means determines that said reduced plurality of data corresponds to said predetermined characteristic, said controlling means controls said system to indicate that said sample has said predetermined characteristic.

34. (Withdrawn) The method as claimed in claim 27, wherein when said determining means determines that said reduced plurality of data does not corresponds to said predetermined characteristic, said controlling means controls said system to indicate that said sample is absent said predetermined characteristic.